

Work Order ID 62703

Wednesday, October 06, 2010 11:27:03 AM

PRELIMINARY ISSUE

POSITIVE
RECALL

Page 1

Item ID: D4176-1

Accept

Setup Start

Revision ID: PRELIM

Stop

Item Name: 429 Clamp, Top

Start Date: 10/6/2010 Start Qty: 6.00

Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool # Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4176

PAI

A

0.00



Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg

Dwg Rev: PAI

Prog Rev: PAI

2-Deburr if necessary

0.00

110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

Quality Control

B10-10-7

(10)

MATERIAL CERTIFICATION
READ UPON DELIVERY
10/10/07

B10-10-7

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 62703

Page 2

Wednesday, October 06, 2010 11:27:03 AM

Item ID: D4176-1

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: 429 Clamp, Top

Start Date: 10/6/2010 Start Qty: 6.00



Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

QC8- Inspect parts - second check

0.00 - inspected to PAI



QC

Memo

0.00

Dug only
8/10/10/07 (NC)

Quality Control

130

Form as per dwg

0.00



Brake NC

Memo

0.00

SD 10/10/07

(10)

Brake NC

140

QC5- Inspect part completeness to step on W/O

0.00 - measured to PAI



QC

Memo

0.00

didn't test
Fit part!
8/10/10/07 (+10)

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



NOTE: Date & initial all entries



Work Order ID 62703

Wednesday, October 06, 2010 11:27:03 AM

Page 3

Item ID:	D4176-1	Accept		Setup	Start	
Revision ID:	PRELIM				Stop	
Item Name:	429 Clamp, Top					
Start Date:	10/6/2010	Start Qty:	6.00		Cust Item ID:	
Required Date:	10/15/2010	Req'd Qty:	6.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150  Packaging	Identify as per dwg & Stock Location: _____ Memo	0.00 0.00							
160  QC	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							
Quality Control									

MF 10-11-15

1st Rev A. 10-10-15

10/10/15
AC21 to Rev A.
(1)

9 WERE SENT TO TORONTO FOR FLIGHT TESTING + RETURNED TO DAS BW.

1 TO BE STOCKED.

10/11/15
MF

RD/BANOW

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, October 06, 2010 11:27:06 AM

Page 1

Work Order ID: 62703



Parent Item: D4176-1



Parent Item Name: 429 Clamp, Top


Start Date: 10/6/2010

Required Date: 10/15/2010

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A 10.09.29 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S14GA  304SS sheet .080		Purchased	No			100	sf	105.3108	0.0403	0.254526	8		

HB10-10-7

Location

MAT20

113295

Loc Qty

105.3108

105.3108

Loc Code

113295

10

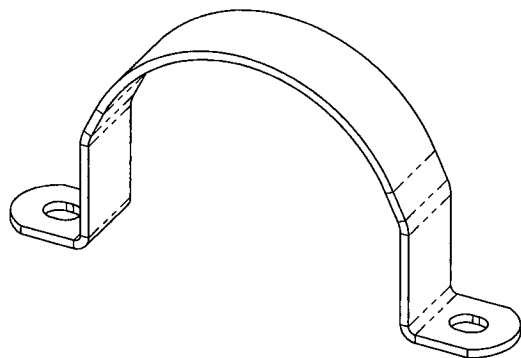
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

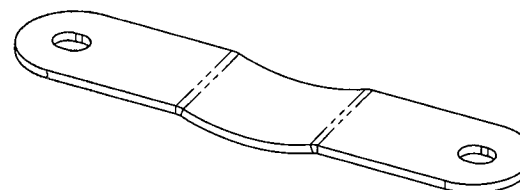
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4176-1 429 CLAMP, TOP



D4176-3 429 CLAMP, BOTTOM

1062703

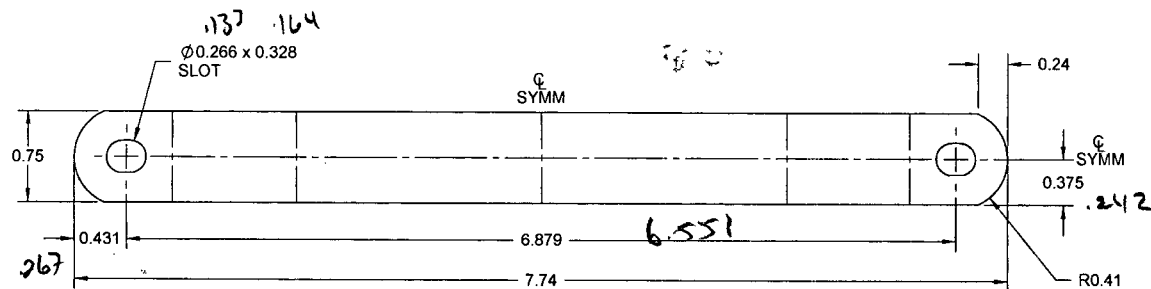
PRELIMINARY ISSUE

10.09.27

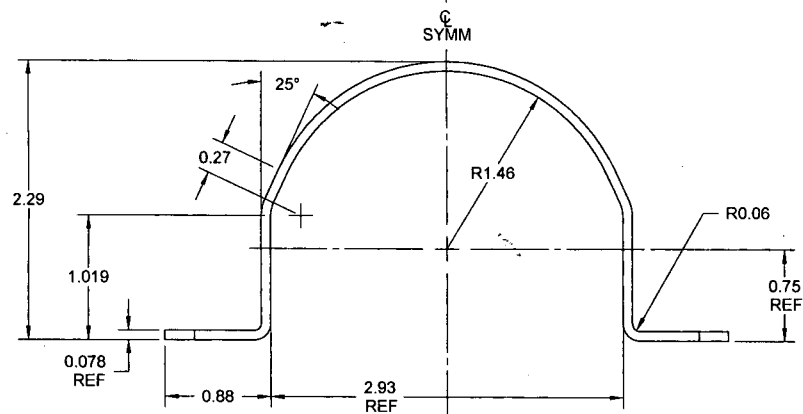
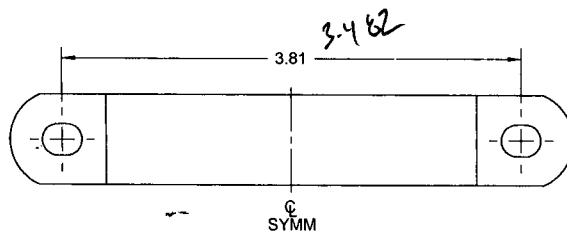
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-1" PER QSI 044 6.1
- 7) WEIGHT:
- D4176-1 = 0.12 lbs
- D4176-3 = 0.08 lbs

PA1	NEW ISSUE	MB	10.09.27
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4176	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



D4176-1F 429 TOP CLAMP FLAT PATTERN



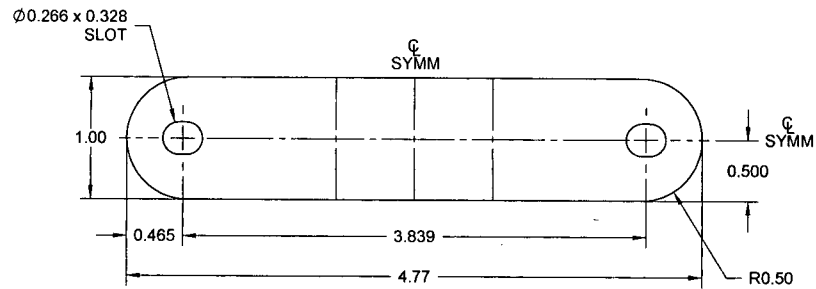
D4176-1 429 CLAMP, TOP
(MAKE FROM D4176-1F)

w/662703

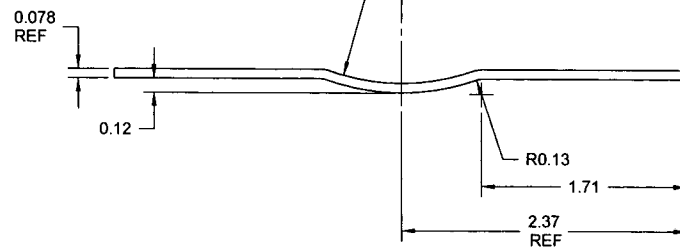
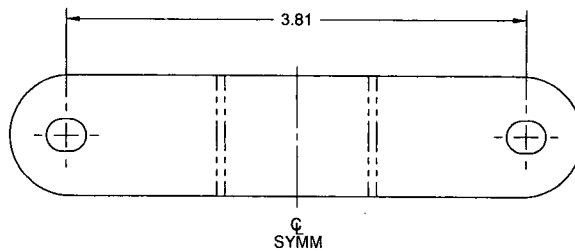
PRELIMINARY ISSUE

10.09.27

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4176	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
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D4176-3F 429 BOTTOM CLAMP FLAT PATTERN



D4176-3 429 CLAMP, BOTTOM
(MAKE FROM D4176-3F)

PRELIMINARY ISSUE

10.09.27

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		D4176	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

Receiving Report

Date: 9/14/27

Batch No: M113295

Supplier: MAGNA

Dart P/O: 10809

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 0214630 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 9/14/30
 Date
 Received/Costing [Signature]
 Initial

Location

Purchase Order Receipt Listing

Page 1 of 1

November 30, 2009 7:51:48 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO10809 · Receipt Dates from 11/30/2009 to 11/30/2009 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna Stainless								
PO10809	1		M304S14GA	sf	11/24/2009	11/30/2009	160.0000	\$7.50	0.0000	0	\$1,200.00
CAD	No		304SS sheet .080 113295	sf	160.0000	Stores		\$1,200.00	0.0000	0	
	2		M304S16GA	sf	11/24/2009	11/30/2009	320.0000	\$5.31	0.0000	0	\$1,700.00
	No		304/316 Sheet .063 113295	sf	320.0000	Stores		\$1,700.00	0.0000	0	
	3		M304R1.750	f	11/24/2009	11/30/2009	12.1000	\$20.58	0.0000	0	\$249.05
	No		304 ROUND BAR 1.750 113295	f	12.0000	Stores		\$249.05	0.0000	0	
	4		M303R0.750	f	11/24/2009	11/30/2009	12.1000	\$3.83	0.0000	0	\$46.38
	No		303 Round Bar 0.750 113295	f	12.0000	Stores		\$46.38	0.0000	0	
Total Received Quantity:										504.2000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$3,195.44	
Total Balance Due Quantity:										0.0000	

**Magna Stainless**

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

**PACKING LIST**

Page 1 of 1

I020078

SOLD TO
DART AEROSPACE LTD
1270 ABERDEEN STREET

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY, ON
K6A 1K7
Contact: CHANTAL

HAWKESBURY, ON
K6A 1K7
Ship Terms: PREPAID

MTR:Y

SPECIAL INSTRUCTIONS

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS	(613) 632-5200	(613) 632-1053	P010809	
Sales Order	Terms	Ship Via		Date Ordered	Date Required	Date Shipped
W021806	NET 30 DAYS	NIR:R-557065-1		11/20/09	11/27/09	11/27/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
1		PC	STAINLESS ROUNDS SRB 304 1-3/4" x R/L 12'10" 100 LB / 1 PC	L029520	79354	1
1		PC	SRB 303 3/4" x R/L 12'1" 20 LB / 1 PC	L031096	423312	1
5		PC	STAINLESS SHEET SSH 304 2B 14ga x 48" x 96" 525 LB / 5 PC	C030389	829393	5
10		PC	MUST USE HT # 829393 SSH 304 2B 16ga x 48" x 96" 840 LB / 10 PC	A030388	829394	10
Bundles: 1			Skids: 1	Approx Weight:		1,485 LB

10/9/11/21

Received by: _____ Date: _____ Signature: _____

VIRAJ PROFILES LIMITED

10 IMPERIAL CHAMBERS, FIRST FLOOR,
WILSON ROAD BALLARD ESTATE
MUMBAI 400 038 INDIA

INSPECTION CERTIFICATE**CUSTOMER:**

MAGNA STAINLESS INC (DIV OF CANADIAN
SPECIALTY METALS INC.)
5775 RUE KIERAN ST-LAURENT
QUEBEC H4S 0A3

ORDER NO.:

P003627

PACKING LIST NO.:

IMP/102069

INSPECTION NO.:

IMP/102069/8

DATE:

19/05/2009

BUNDLE NO.:

2051172

GRADE
T-304/304L

DESCRIPTION:

STAINLESS STEEL ROUND BARS L/C NO.: 1700448 DT: 16/05/2009

Salubro 9.11.30

PEELED & POLISHED

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
1 3/4	ROUND	ASTM A484	12 R/L	13	1369

CHEMICAL ANALYSIS

HEAT NO.		79354								
C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Co
0.022	1.44	0.42	0.024	0.036	8.05	18.10	0.50	0.48	0.081	0.12

TEST RESULT

2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
44	92	56	70	185	6

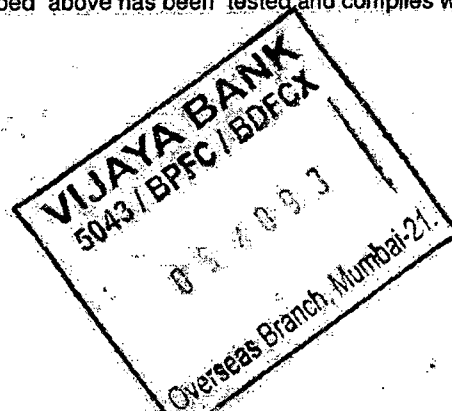
Specification:

MATERIAL CONFORMS TO ASTM A 276-06, COND.A, A 479/479M-06a, C OND.A, A 183/193M06a & A320/320M-05a B8 CL1, A484-06b, A 182/182M-06 COND.A, ASME SA 479-98, COND.A, SA 183-98 B8 CL1, SA 320-98 B8 CL1, SA-182-98 (CHEMISTRY ONLY). NACE MR0175-2002. AMS QQ-S-763 B-06, COND.A. (EXCEPT MARKING). AMS 5639G/5647H (EXCEPT MARKING). INTERGRANULAR CORROSION TEST AS PER ASTM A 262-02a PRACTICE E. GRAIN SIZE AS PER ASTM E112-96a1. IMPROVED MACHINABILITY QUALITY, UNS-S-30400/S-30403 CERTIFICATE AS PER EN 10204-3.1.

Remarks:

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS; MICRO: FREE FROM CONTINUOUS MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C; SOAKING TIME 1hr/min; WATER QUENCHED; MELT SOURCE AOD. MELT & MANUFACTURED: INDIA COUNTRY OF ORIGIN: INDIA. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

We hereby certified that the material described above has been tested and complies with the terms of order/contract.



WORKS INSPECTOR

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Kunde/Client
VALBRUNA CANADA LTD
8724 HOLTGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Hersteller/producer

Avviso di Spedizione: D-VI09017149
Lieferanzgeber/Packing Issue/L

Ordine nr.: 907002333 Stock - Canada
Bestell/Your order/Commande

Certificato nr.: MEST774991/2009/
Prüfung/Test/Essai

Conferma ordine nr.: EI09004135
Works/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur



Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Item inspected/Finissage

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 303 A,CF
ASTM A314 2008 S30300
DOD-F-24669 8 S30300
(Q) SEC. II PTA 2007 EDITION ADD. 2008a

AMS 5640 U TYPE1
ASTM A320 2008 B8F
MIL-S-862 B/1 303

ASME-SA329 2007 B8F (Q)
ASTM A582 2005 S30300
QQ-S-764-B/2 303

Qualità: 303
Werksstoff/Grade/Marque

Marca: MV188ZHS MAXIVAL

Panzonatura: 303

Pos. nr. Pos. nr. Nr. du point	Oggetto Gegenstand Faisciot description Description du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Altolerancia Tolérance	Lunghezza - in Länge Length Longueur	Colata Schmelze Host Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losz. Lot nr. Lot nr.
0010	Round	0,7500	484-06B	146 / 147	423312		4.744	834700760

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt
This material has been certified in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spezialanalytisch durchgeführt
Anmischungstestung: OK
Controllo antimescolanza: OK

Controllo visivo e dimensionale: soddisfa le esigenze:
Betrachtung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf lieferbarem Produkt test a l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probes Long diam Spec. Brinell Diam. 100 Hard Diam. 100 Long diam. spec. mm	°F	Posiz. Stagge Position Position	Snervamento Streckgrenze Yield Stress Limite elastic Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite elastic Rp 0,2% k.s.i.	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Dehnung Elongation Allongement E 4d %	Strizione Zugdehnung Reduction of area Striction RA %	Resilienza Resilienz Resilience Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti i Anforderungen/Lieferbare values Valeurs dimensionnelles	min max			30	-	75	-	35	-	140 241
A	12,5	68	L	70		101		43	51	239

1) L-Länge/Funktionstabelle, T-Temperatur, Q-Querschnitt, B-Breite

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Host Schmelze/Coulée	min - max 0,150	1,00	2,00	17,00 19,00	0,00	1,00	8,00 10,00	0,15	0,15 0,40	0,400	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
423312	0,035	0,45	1,96	17,68	0,35	0,60	8,50	0,109	0,03	0,33	0,004			

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940 °F for 0,5hr/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s. 4.3 by TÜV and LLOYD'S

Vicenza, 29/07/09

VO0810
(Mod. MCER)

Il collaudatore di stabilimento / der Werkssachverständige Works inspector / L'agent d'usine

M. Rizzoli

Pagina - 1 di 1

P606632-423312

CP 05.11.30

PO05349 - 829393

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 05349		CUST. CODE 06/05/09	ACCEPTING MILL 574738	SHIPPER NO. VANDERGRIFF, PA.	PRODUCT CODE 427038	MILL ORDER NUMBER 13020102060000	DATE SHIPPED 30-069-202
FORMS DISTRIBUTION SOLD TO MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT		REPEAT ORDER 94045-0	DO RATE 28	GOVT CONTRACT 7219.14.0000	MATL. 1121	SHIPPING LOCATION VANDERGRIFF	INVOICE PA 668451
		PRIME	SEC.	COILEX	SHIP TO		
		DSO	DSO	1450 GRAHAM BELL	QUEBEC ZIP CODE: J4B 6H5		
		20		BOUCHERVILLE	CN		

8/9/4/30

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS TARE NET	THEO	TAG #/ CD	SKID #
001	1	48./075/2021.	829393	07109N172	8763075	21130 50 21080		651551	
C CUST IDENTITY 304B075X48						21130 50 21080			
1 SKID									

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

TYPE HEAT/TEST	--C---	--MN--	--P---	--S---	--SI--	--CR--	--NI--	--N---
HEAT 829393	.05	.97	.033	.0005	.44	18.2	8.1	.07

ITEM TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	BEND	GRAIN SIZE	HARDENABILITY
001 8763075	T 48000.	92500.	55.	NR	83.HRBW	NR	NR	NR
* Y.S. BY 0.2% OFFSET METHOD								

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

08/06/09 11:37:26

CONSIGNEE - Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînent la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6188-3 908

CUST. ORD. NO. & DATE		CUST. CODE		ACCEPTING MILL		SHIPPER NO.		PRODUCT CODE		MILL ORDER NUMBER		DATE SHIPPED	
05349		06/05/09		574738		VANDERGRIFF, PA.		427038		13020102060000		30-069-202	
FORMS DISTRIBUTION		REPEAT ORDER		DO RATE		PRI-ORITY		GOVT CONTRACT		MATERIAL		SHIPPING LOCATION	
SOLD TO		1		SHIP TO		SPEC		94045-0		28		7219.14.0000	
MAGNA STAINLESS		PRIME		SEC.		DSO		DSO		COILEX		1450 GRAHAM BELL	
5775 KIERAN ST.		20		20		COILEX		1450 GRAHAM BELL		QUEBEC ZIP CODE: J4B 6H5		BOUCHERVILLE	
QUEBEC CANADA H4S 0A3		20		20		COILEX		1450 GRAHAM BELL		QUEBEC ZIP CODE: J4B 6H5		BOUCHERVILLE	
SAINT-LAURENT		20		20		COILEX		1450 GRAHAM BELL		QUEBEC ZIP CODE: J4B 6H5		BOUCHERVILLE	

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

CARRIER - CUSTOMER TRUCK

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 17 DATED 05/12/2008. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. DIN EN 10204:2005 - 3.1. ALLEGHENY LUDLUM IS APPROVED AS A MANUFACTURER ACCORDING TO AD-MERK BLATT WO/TRD100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND , PA FACILITIES OR A NADCAP AND ISO/IEC 17025 ACCREDITED LABORATORY.

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:
C,S BY COMBUSTION/INFRARED
N,O,H BY INERT FUSION/THERMAL CONDUCTIVITY
MN,P,SI,CR,NI,MO,CU,CB,CO,V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB,BI,AG BY GFAA

FOR ACCESS TO ONLINE CERTIFICATES OF TEST
REGISTER AT WWW.ALCEXTRA.COM

PAGE 02 - FINAL PAGE.

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Tracy McFarland
Director, Corporate Quality Assurance

PO05349 - 829394

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 05349			CUST. CODE 06/05/09 574738		ACCEPTING MILL VANDERGRIFF, PA.		SHIPPER NO. 427038		PRODUCT CODE 13020102060000		MILL ORDER NUMBER 30-069-187		DATE SHIPPED 08/06/09	
FORMS DISTRIBUTION SOLD TO 1 SHIP TO SPEC			REPEAT ORDER 94045-0		DO RATE 28		PAV ORITY 7219.14.0000		MATERIAL 1121 VANDERGRIFF		SHIPPING LOCATION PA		INVOICE 668450	
MAGNA STAINLESS 5775 KIERAN ST. QUEBEC CANADA H4S 0A3 SAINT-LAURENT			PRIME DSO		SEC. DSO		COILEX 1450 GRAHAM BELL QUEBEC ZIP CODE: J4B 6H5 BOUCHERVILLE		SHIP TO CN					

807/1/30

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09)
(ASTM-A-480-09)

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID #
001	1	48./060/2149.	829394	07099N793	8763049	20670	50	20620		651358		
		C CUST IDENTITY 304B060X48										
		1 SKID				20670	50	20620				

ORDER REMARKS: EXW - EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE RESPONSIBILITY OF THE BUYER

TYPE HEAT/TEST HEAT 829394	--C----	--MN--	--P----	--S----	--SI--	--CR--	--NI--	--N----
	.06	.95	.034	.0003	.47	18.2	8.1	.06

ITEM TEST NO	YIELD PSI *	TENSILE % PSI	ELONG IN 2"	% R/A	HARDNESS	BEND	GRAIN SIZE	HARDENABILITY
001 8763049	T 45500.	94000.	58.	NR	83.HRBW	NR	NR	NR
	* Y.S. BY 0.2% OFFSET METHOD							

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE 01 - CONTINUED ON PAGE 02

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Tracy McFarland
Director, Corporate Quality Assurance

**NOTICE OF SHIPMENT/
PACKING LIST**



CERTIFICATE OF TEST

AL 8168-3 908

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FORMS DISTRIBUTION		REPEAT ORDER		DO RATE		PRI. ORTY		GOVT CONTRACT		MATL.		SHIPPING LOCATION	
SOLD TO		1		94045-0		28		7219.14.0000		1121		VANDERGRIFF	
MAGNA STAINLESS		PRIME		SEC.		DSO		DSO		SHIP TO		PA	
5775 KIERAN ST.										COILEX		668450	
QUEBEC CANADA H4S 0A3										1450 GRAHAM BELL			
SAINT-LAURENT										QUEBEC ZIP CODE: J4B 6H5			
										BOUCHERVILLE		CN	

GRADE AND SPECIFICATIONS CARRIER - CUSTOMER TRUCK
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (ASTM-A-240-09A) (ASTM-A-370-09) (ASTM-A-480-09)

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AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
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Tracy McFarland
Director, Corporate Quality Assurance



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO10809**

Purchase Order Date 11/20/09

PO Print Date 11/20/09

Page Number 1 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

FAKED
C. 9/11/09

Contact Name
Vendor Phone 800 363 6646
Vendor Fax 514 339 1105
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
Vendor Part Number							
1	M304S14GA	304SS sheet .080	11/24/09 Yes	✓ 160.00 sf	Yours ppd	\$7.5000	\$1,200.00
		Special Inst: MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH ASPER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					
2	M304S16GA	304/316 Sheet .063	11/24/09 Yes	✓ 320.00 sf	Yours ppd	\$5.3125	\$1,700.00
		Special Inst: AS ABOVE					
3	M304R1.750	304 ROUND BAR 1.750	11/24/09 Yes	12.00 f	Yours ppd ✓ NEC 1212 C. 9/11/09	\$20.5830	\$247.00
		Special Inst: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 (NOTE: 303 NOT ACCEPTABLE)					

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 11/20/09

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO10809**

Purchase Order Date 11/20/09

PO Print Date 11/20/09

Page Number 2 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone

800 363 6646

Vendor Fax

514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

4

M303R0.750

303 Round Bar 0.750

11/24/09

Yes

12.00 Yours ppd

\$3.8333

\$46.00

f Nrc 12-12 / 08/14/27

Special Inst: MATERIAL: AISI 303 ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

PO Total:

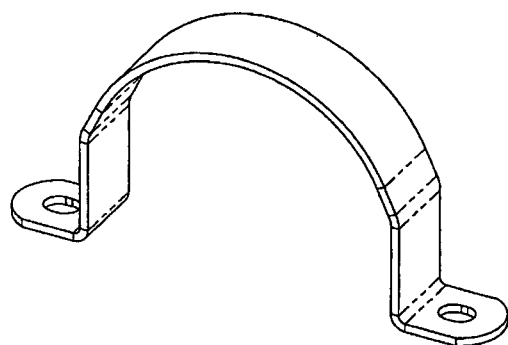
\$3,193.00

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

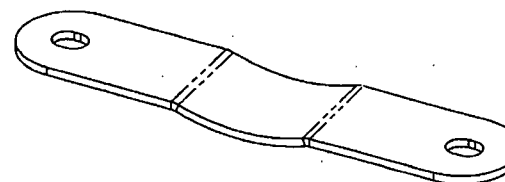
Change Nbr: 1

Change Date: 11/20/09

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



D4176-1 429 CLAMP, TOP



D4176-3 429 CLAMP, BOTTOM

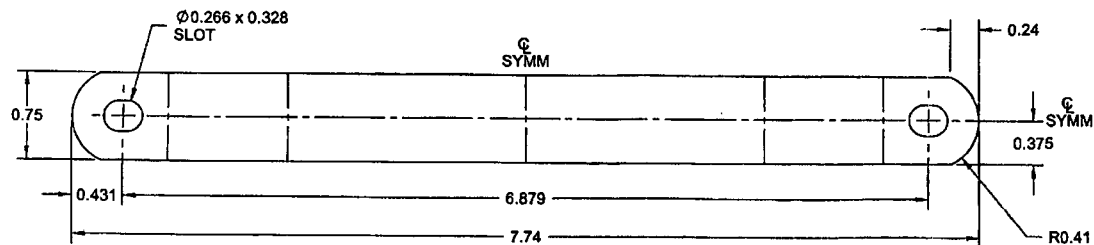
62703

RELEASED
2010-10-03
MM

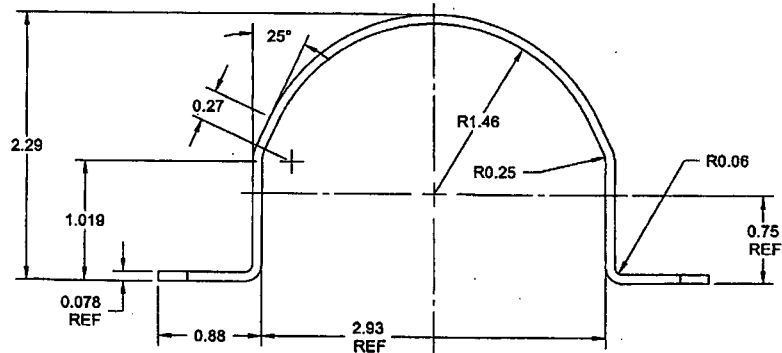
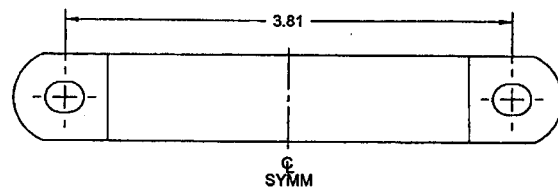
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316) OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4176-X" PER QSI 044 6.1
- 7) WEIGHT:
 - D4176-1 = 0.12 lbs
 - D4176-3 = 0.08 lbs

A		NEW ISSUE		MB	10.09.27
REV.		DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4176 TITLE 429 CLAMP		REV. A SHEET 1 OF 3 SCALE NTS	
DRAWN					
CHECKED					
MFG. APPR.					
APPROVED		DATE 10.09.27		COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DE APPR.					



D4176-1F 429 TOP CLAMP FLAT PATTERN

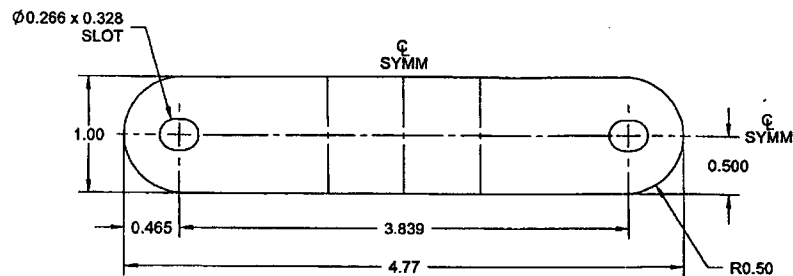


D4176-1 429 CLAMP, TOP
(MAKE FROM D4176-1F)

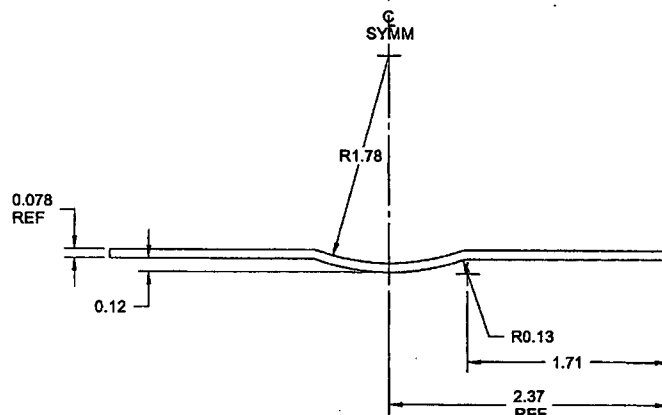
62703

RELEASED
2010-10-03
JW

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4176	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



D4176-3F 429 BOTTOM CLAMP FLAT PATTERN



D4176-3 429 CLAMP, BOTTOM
(MAKE FROM D4176-3F)

62703

RELEASED
2010-10-07
MD

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4176	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		429 CLAMP	NTS
DATE	10.09.27	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	